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# Winter Wheat Variety Test

## **Abstract**

Twenty-nine varieties were included in the 2000 winter wheat test at Crawfordsville. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted September 30, 1999, at a rate of  $1\frac{1}{2}$  bushels/acre. The winter wheat plots were harvested on June 30, 2000.

## **Keywords**

Agronomy

## **Disciplines**

Agricultural Science | Agriculture | Agronomy and Crop Sciences

## **Winter Wheat Variety Test**

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### **Materials and Methods**

Twenty-nine varieties were included in the 2000 winter wheat test at Crawfordsville. Each variety was sown in three different plots to average out the effects of soil variability. The varieties were planted September 30, 1999, at a rate of  $1\frac{1}{2}$  bushels/acre. The winter wheat plots were harvested on June 30, 2000.

### **Results**

Average winter wheat grain yield at Crawfordsville in 2000 was 75.8 bushels/acre, 7 bushels/acre less than the average yield in 1999 (Table 1). Based on two years of data (1999 - 2000), Kaskaskia was the highest yielding variety. Crimson had the highest test weight among the varieties tested for two years.

Additional information on winter wheat variety tests in the state can be found in the publication, "Iowa Crop Performance Tests – Winter Wheat, 1998-2000," which is available from county extension offices (AG-6).

**Table 1. Performance of winter wheat entries at Crawfordsville in 1999 and 2000.**

| Entry                  | Yield   |       | 2-yr<br>avg | Heading<br>date <sup>a</sup> | Lodging<br>score <sup>b</sup> | Straw<br>Yield <sup>c</sup> | Test<br>wt. <sup>d</sup> | Height <sup>e</sup> |
|------------------------|---------|-------|-------------|------------------------------|-------------------------------|-----------------------------|--------------------------|---------------------|
|                        | 1999    | 2000  |             |                              |                               |                             |                          |                     |
|                        | Bu/Acre |       |             |                              |                               | T/acre                      | Lbs/Bu                   | Inches              |
| 2137                   | 71.2    | 92.6  | 81.9        | 18                           | 7                             | 4.4                         | 56.2                     | 31                  |
| Alliance               | 66.9    | 86.8  | 76.9        | 16                           | 50                            | 4.0                         | 56.0                     | 33                  |
| Arapahoe               | 73.5    | 82.9  | 78.2        | 15                           | 8                             | 4.2                         | 55.1                     | 34                  |
| Cardinal               | 71.3    | 83.4  | 77.3        | 19                           | 7                             | 3.6                         | 54.4                     | 35                  |
| Catoctin               | 57.6    | 81.4  | 69.5        | 18                           | 17                            | 3.9                         | 54.8                     | 31                  |
| Centura                | 63.5    | 65.2  | 64.4        | 19                           | 7                             | 3.7                         | 57.0                     | 33                  |
| Cimarron               | 87.9    | 97.7  | 92.8        | 14                           | 33                            | 3.8                         | 57.3                     | 28                  |
| Crimson                | 65.8    | 69.0  | 67.4        | 22                           | 23                            | 3.7                         | 58.6                     | 33                  |
| Culver                 | 77.0    | 84.0  | 80.5        | 20                           | 33                            | 3.6                         | 56.0                     | 32                  |
| Custer                 | 82.5    | 102.4 | 92.4        | 15                           | 7                             | 4.0                         | 57.8                     | 31                  |
| Ernie                  | 86.4    | 86.7  | 86.6        | 15                           | 67                            | 5.0                         | 54.9                     | 28                  |
| Glacier                | 56.0    | 67.6  | 61.8        | 20                           | 13                            | 5.8                         | 54.6                     | 35                  |
| Goldfield              | 74.6    | 79.9  | 77.3        | 13                           | 13                            | 3.9                         | 54.8                     | 35                  |
| Hopewell               | 45.5    | 62.1  | 53.8        | 16                           | 7                             | 4.1                         | 52.7                     | 31                  |
| Howell                 | 67.0    | 85.1  | 76.1        | 19                           | 18                            | 3.9                         | 57.2                     | 33                  |
| Jagger                 | 64.6    | 83.1  | 73.9        | 12                           | 33                            | 3.9                         | 55.4                     | 30                  |
| Karl92                 | 79.6    | 92.6  | 86.1        | 14                           | 37                            | 2.9                         | 56.3                     | 31                  |
| Kaskaksia              | 96.7    | 115.7 | 106.2       | 16                           | 10                            | 4.5                         | 56.5                     | 35                  |
| Nekota                 | 71.6    | 85.5  | 78.5        | 17                           | 27                            | 3.5                         | 57.0                     | 32                  |
| Patterson              | 75.3    | 84.9  | 80.1        | 13                           | 13                            | 4.6                         | 54.7                     | 32                  |
| Prowers                | 44.5    | 64.9  | 54.7        | 17                           | 43                            | 4.0                         | 58.0                     | 35                  |
| Rawhide                | 70.4    | 84.3  | 77.3        | 17                           | 13                            | 3.4                         | 56.7                     | 33                  |
| Siouxland              | 60.4    | 75.7  | 68.1        | 18                           | 0                             | 3.6                         | 56.9                     | 36                  |
| Tandem                 | 59.7    | 67.6  | 63.6        | 19                           | 53                            | 4.0                         | 57.9                     | 33                  |
| Tonkawah               | 79.0    | 91.6  | 85.3        | 18                           | 0                             | 3.9                         | 57.8                     | 29                  |
| Vista                  | 62.1    | 70.0  | 66.0        | 17                           | 50                            | 3.6                         | 55.7                     | 29                  |
| Wesley                 | 64.0    | 89.0  | 76.5        | 17                           | 7                             | 3.8                         | 56.3                     | 32                  |
| Winstar                | 54.8    | 79.0  | 66.9        | 19                           | 20                            | 4.3                         | 56.7                     | 34                  |
| Yuma                   | 70.4    | 85.4  | 77.9        | 15                           | 17                            | 3.8                         | 56.5                     | 33                  |
| Mean                   | 69.0    | 82.6  | 75.8        | 17                           | 21                            | 1.3                         | 56.2                     | 32                  |
| LSD(0.05) <sup>f</sup> | 7.2     | 9.8   | 9.8         | 3                            | 22                            | 4.0                         | 1.2                      | 3                   |

<sup>a</sup> Heading date at Ames, 2000.<sup>b</sup> Lodging - 1999 average from 3 sites.<sup>c</sup> Straw yield - 2000 average from 3 sites.<sup>d</sup> Test weight – 2000 average from 3 sites.<sup>e</sup> Height – taken at Ames, 2000.<sup>f</sup> LSD = Least significant difference. When entries differ by an amount equal to one LSD or more, they are considered to be in different classes with 95% certainty.